

David A. Grewell, Avraham Benatar, Joon B. Park (izdavači)

# Plastics and Composites Welding Handbook

Carl Hanser Verlag, München, 2003

422 stranice, literatura iza svakoga poglavlja, format 17 cm · 24,5 cm, ISBN 3-446-19534-3, tvrdi uvez, cijena 99,90 €.

Sadržaj: *Introduction; Fundamental Steps in Plastics and Composites Welding; Heated Tool (Hot Plate) Welding; Hot Gas Welding; Extrusion Welding; Implant Induction (Electromagnetic) Welding; Resistive Implant Welding; Ultrasonic Welding; Linear and Orbital Vibration Welding; Spin Welding; Radio Frequency Welding; Infrared and Laser Welding; Microwave Welding;*

*Guidelines for Process Selection; Testing of Weld Joints; Index.*

Knjiga prikazuje sve komercijalno dostupne postupke zavarivanja plastike i plastičnih kompozita. Napisana je sa svrhom da omogućiti čitatelju izbor optimalnoga postupka, uzimajući u obzir njegove prednosti i nedostatke. Za potrebe prakse osobita je pozornost posvećena zavarljivosti, optimiranju konstrukcije dijelova namijenjenih zavarivanju, uklanjanju pogriješaka pri zavarivanju te razornim i nerazornim metodama ispitivanja zavarenih spojeva. Zato je nužna svakome tko se bavi tim po-

družjem. Istodobno čitatelja uvodi i u teorijske osnove zavarivanja pa su objašnjeni pojmovi kao što je to molekularna difuzija, mehanizmi prijenosa topline i stezno tečenje (e. *squeeze flow*).

Igor i Ranka ČATIĆ



Solvay kemija d.o.o.  
Zagreb

Petrova 12  
tel: +385 1 4635 151  
fax: +385 1 4635 158  
www.solvay.com

*SolVin* was set up in 1999, when *Solvay* and *BASF* joined their competencies in the Vinyls sector, and started its operations in August. *Solvay* holds 75 % and *BASF* 25 % of *SolVin*. The synergies achieved in know-how, organisation and cost efficiency, the complementary of product ranges as well as upstream integration have built up *SolVin* as a leader on the PVC and PVDC markets.

Already on January 1, 2000, *SolVin* and *Atofina* established a production joint venture in Fos and Berre, France, by taking over the Vinyls activities of *Shell*. *SolVin* has a 21 % share of the VCM unit in Fos and 35% of the PVC plant in Berre, indicated Nicolas-Paul Neu, Managing Director of *SolVin*.

The year 2001 was the year of restructuring for *SolVin*, which saw the closure of the PVC-plant in Zandvliet, Belgium, in April and the transfer of products to other sites by reducing the overall PVC capacity. With this move we clearly improved our cost structure and competitiveness, said Harald Schwager, Managing Director of *SolVin*.

On January 1, 2002, *SolVin* integrated the polyvinyl chloride production activities located in Martorell, Spain, which had previously been owned by *Solvay*. These activities comprise a 65 % share of the PVC and VCM production joint venture operated with *Atofina*, whose 35 % stake will remain unaffected. Related activities previously controlled by *Solvay*, including *Martorell's* electrolysis unit, were also transferred to *SolVin*. The production joint venture in *Martorell* with *Atofina* was launched in February 1999, with the aim of creating a large integrated plant, which maximises competitiveness. The ownership structure of *SolVin* was not modified by the transaction. Following this transfer of ownership, the picture is now clear and complete: all of *Solvay* and *BASF* group's PVC and PVDC activities in Europe are housed within *SolVin*.

*SolVin* is now the biggest integrated player from chlorine via EDC, VCM to PVC and via VDC to PVDC in Europe having operations in Belgium, France, Germany, Spain and Italy with an annual capacity of 1.3 million tonnes of PVC and 35 kt of PVDC. *SolVin* generated consolidated sales exceeding 1 billion euros with 2,300 employees.

In Ferrare, Italy, *SolVin* founded together with *Vulcaflex*, *Adriaplast* and *Technometal* a joint venture for the recycling of PVC wastes utilising the *Vinylloop*-process developed by *Solvay*. With this investment *SolVin* furthermore proves its long-term commitment to PVC supporting *SolVin's* Vision which is based on the four axes

Customers - Society - Personnel - Shareholders

In the first years of operation *SolVin* has worked out and clearly applied its strategy supported by a true *European Spirit* that will enable it to achieve its Vision and become *The Partner in Vinyls*.